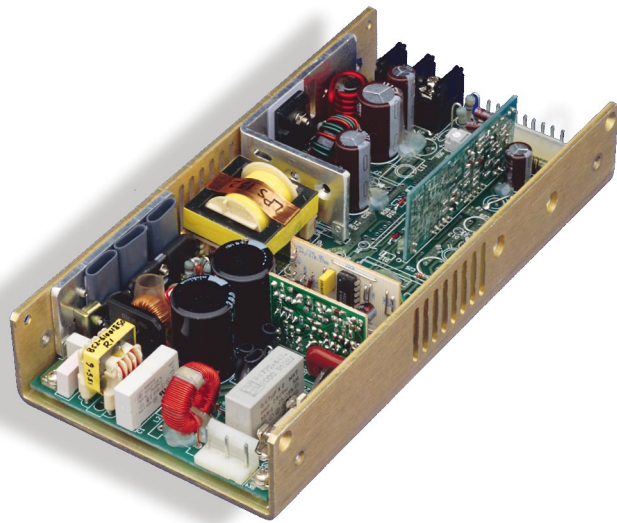


LPS 150

150 Watts

LPS 150 Series

Total Power	110 - 150 Watts
Input Voltages	85 - 132 / 170 - 264 VAC 220 - 370 VDC
# of Outputs	Single



SPECIAL FEATURES

- Auto ranging input
- Remote sense
- Remote inhibit
- Power fail
- Single wire current sharing
- Built-in EMI filter
- Low output ripple
- Adjustable output
- Overvoltage protection
- Overload protection
- Optional cover (-C suffix)

ENVIRONMENTAL

Operating temperature: 0° to 50°C ambient; derate each output at 2.5% per degree from 50° to 70°C

Electromagnetic susceptibility: Designed to meet IEC 801, -2, -3, -4, -5,-6, Level 3

Humidity: Operating; non-condensing 5% to 95%

Vibration: Three orthogonal axes, sweep at 1 oct/min, 5 min. dwell at four major resonances 0.75 G peak 5 Hz to 500 Hz, operational

Storage temperature: -40° to 85°C

Temperature coefficient: ±0.04% per °C

MTBF demonstrated: >550,000 hours at full load and 25°C ambient conditions

ELECTRICAL SPECIFICATIONS

Input

Input range 85-132 VAC
or 170-264 VAC automatically selected.
220-370 VDC

Frequency 47-63 Hz

Inrush current 38 A max, cold start @ 25°C

Efficiency 75% typical at full load

EMI filter FCC Class B conducted
CISPR 22 Class B conducted
EN55022 Class B conducted
VDE 0878 PT3 Class B conducted

Safety ground leakage current <0.5 mA @ 50/60 Hz, 264 VAC input

Output

Maximum power 110 W convection (75 W with cover)
150 W with 30 CFM forced air
(130 W with cover)

Adjustment range ±5% minimum

Hold-up time 20 ms @ 110 W load, 115/230 VAC nominal line

Overload protection Short circuit protection. Case overload protected @ 110% to 145% above peak rating

Overvoltage protection 5 V output: 5.7 to 6.7 VDC. Other outputs 10% to 25% above nominal output

Logic Control

Power Failure TTL Logic signal goes high 50-150 msec after 5 V output. It goes low at least 3 ms before loss of regulation.

Remote inhibit Requires an external TTL high signal to inhibit outputs.

Remote sense Compensates for 0.5 V lead drop minimum, will operate without remote sense connected. Reverse connection protected.

SAFETY

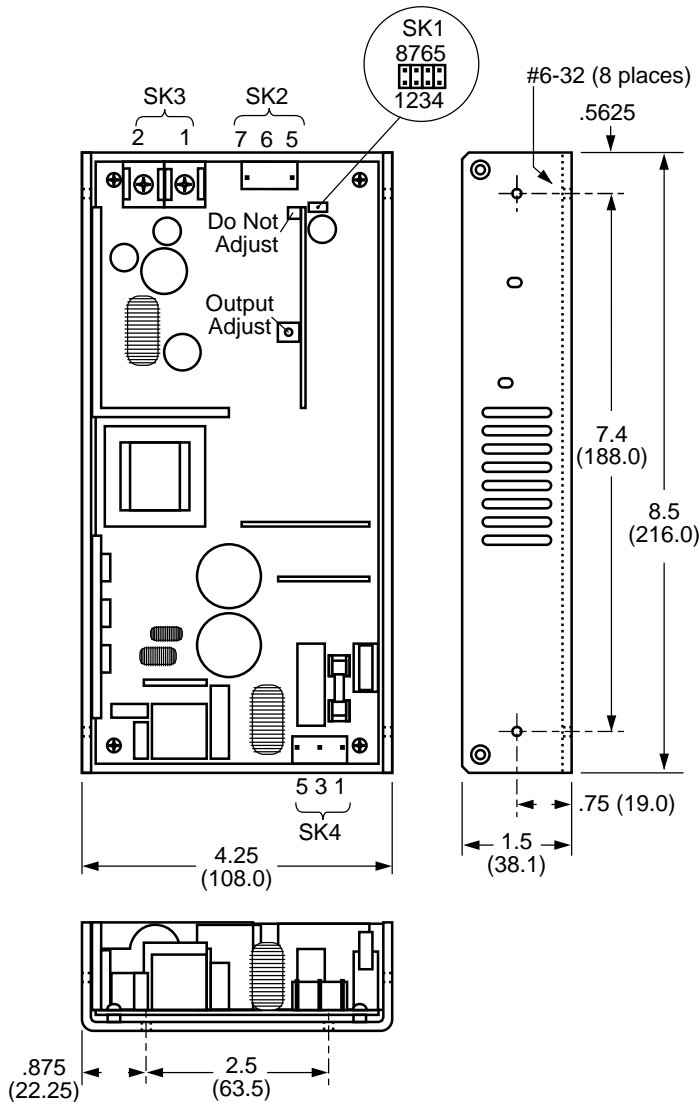
VDE	0805/EN60950 (IEC950)	11774-3336-1260 (LC#88585)
UL	UL1950	EI32002
CSA	CSA 22.2-234 Level 3	LR53982
NEMKO	EN 60950/EMKO-TUE (74-sec) 203	P95102999
BABT	EN60950/BS7002	607019
CB	Certificate and report	2062
CE	Mark (LVD)	

ORDERING INFORMATION

Model Number	Output Voltage	Minimum Load	Maximum Load with Convection Cooling	Maximum Load with 30 CFM Forced Air	Peak Load ¹	Regulation ²	Ripple P/P (PAR) ³
LPS152	5 V	0 A	22 A	30 A	35 A	±2%	50 mV
LPS153	12-(15) V	0 A	9.1 A	12.5 A	14.5 A	±2%	150 mV
LPS155	24-(28) V	0 A	4.5 A	6.2 A	7.2 A	±2%	280 mV, max.
LPS156	36-(48) V	0 A	3.1 A	4.2 A	4.9 A	±2%	480 mV, max.

1. Peak current lasting <30 seconds with a maximum 10% duty cycle.
 2. At 25°C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
 3. Peak-to-peak with 20 MHz bandwidth and 10 μF in parallel with a 0.1 μF capacitor at rated line and load ranges.
- Note: -C suffix added to the model number indicates cover option.

DRAWINGS



PIN ASSIGNMENTS

Connector	LPS152	LPS153	LPS155	
SK1	PIN 1	INHIBIT -ve	INHIBIT -ve	INHIBIT -ve
	PIN 2	INHIBIT +ve	INHIBIT +ve	INHIBIT +ve
	PIN 3	VCC	VCC	VCC
	PIN 4	No Connection	No Connection	No Connection
	PIN 5	COMMON	COMMON	COMMON
	PIN 6	-SENSE	-SENSE	-SENSE
	PIN 7	+SENSE	+SENSE	+SENSE
	PIN 8	C SHARE	C SHARE	C SHARE
SK2	PIN 5	COMMON	COMMON	COMMON
	PIN 6	PIN REMOVED	PIN REMOVED	PIN REMOVED
	PIN 7	POK	POK	POK
SK3	TB-1	COMMON	COMMON	COMMON
	TB-2	+5 V	+12 to +15 V	+24 to +28 V
SK4	PIN 1	GROUND	GROUND	GROUND
	PIN 3	LINE	LINE	LINE
	PIN 5	NEUTRAL	NEUTRAL	NEUTRAL

MATING CONNECTORS

(SK4) AC Input: Molex 09-50-8051 (USA)
 Molex 09-91-0500 (UK)
 PINS: 08-58-0111

(SK2) Power fail: Molex 09-50-8031 (USA)
 Molex 09-91-0300 (UK)
 PINS: 08-58-0111

(SK1) Remote sense/Remote inhibit:
 Molex 51110-0851 (USA)
 Pins: 50394-8100

Crimping Tool: 11-01-0204

NOTES

1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is ±.02".
3. Specifications are for convection rating at factory settings unless otherwise stated.
4. Remote inhibit requires an external 5V @ 10mA to activate.
5. Mounting (6-32) maximum insertion depth is 0.15".
6. Warranty: 1 year
7. Weight: 1.75 lb. / 0.80 kg